

F. Biographical Sketch

Name: Peter A. Jumars
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 URL: <<http://www.umaine.edu/marine/people/sites/pjumars/>>

(a) Professional Preparation

B.A.: 1969, University of Delaware, Newark, Delaware (Biological Sciences)
 Ph.D.: 1974, Scripps Institution of Oceanography
 University of California, San Diego, California (in Oceanography) with R.R. Hessler
 Dissertation: "Dispersion patterns and species diversity of macrobenthos in two bathyal communities"
 Postdoctoral work: 1974-1975, USC, with Kristian Fauchald in polychaete systematics

(b) Appointments

1999 - present Professor of Oceanography, School of Marine Sciences & Darling Marine Center,
 University of Maine
 2007 - 2012 Director, School of Marine Sciences, University of Maine
 1999 - 2005 Affiliate Professor, University of Washington, Seattle, WA
 1983 - 1999 Professor, School of Oceanography, University of Washington
 1992 - 1993 Acting Director, University Research Initiative in Marine Bioremediation
 1986 - 1992 Editor, *Limnology and Oceanography*
 1979 - 1983 Associate Professor, Department or School of Oceanography,
 University of Washington
 1980 - 1982 Oceanic Biology Program (Code 422CB) and Sediment
 (on leave) Dynamics Program (Code 425GG), Office of Naval Research, Arlington, Virginia
 1975 - 1979 Assistant Professor, Department of Oceanography, University of Washington
 1974 - 1975 Postdoctoral Research Associate, Allan Hancock Foundation,
 University of Southern California, Los Angeles, California
 1971 - 1974 Research Assistant, Scripps Institution of Oceanography, La Jolla,
 University of California, San Diego, California
 1964 - 1969 Research Assistant, Department of Entomology and Applied Ecology,
 University of Delaware, Newark, Delaware

(c) Five most relevant publications in reverse chronology plus five most cited, most to least (of 139). All 10 are posted at <<http://www.umaine.edu/marine/people/sites/pjumars/>>.

- Jumars, P.A., 2013. Boundary-trapped siphon flows: Pipe entry revisited numerically. *Limnol. Oceanogr., Fluids and Environments*, in press.
- Young, A.M., L. Karp-Boss, P.A. Jumars and E.N. Landis. 2012. Quantifying diatom aspirations: Mechanical properties of chain-forming species. *Limnol. Oceanogr.* **57**: 1789-1801
- Nguyen, H., L. Karp-Boss, P.A. Jumars and L.J. Fauci. 2011. Hydrodynamic effects of spines: a different spin. *Limnol. Oceanogr.: Fluids and Environments* **1**: 110-119.
- Musielak, M.M., L. Karp-Boss, P.A. Jumars and L.J. Fauci. 2009. Nutrient transport and acquisition by diatom chains in a moving fluid. *J. Fluid Mech.* 638: 401-421.
- Jumars, P.A., E. Boss, J.H. Trowbridge and L. Karp-Boss. 2009. Turbulence-plankton interactions: A new cartoon. *Marine Ecology: An Evolutionary Approach* **30**: 233-150.
- Fauchald, K. and P.A. Jumars. 1979. The diet of worms: a study of polychaete feeding guilds. *Oceanogr. Mar. Biol. Ann. Rev.* **17**: 193-284.
- Jumars, P.A., D.L. Penry, J.A. Baross, M.J. Perry, and B.W. Frost. 1989. Closing the microbial loop: Dissolved carbon pathway to heterotrophic bacteria from incomplete ingestion, digestion and absorption in animals. *Deep-Sea Res.* **36**: 483-495.
- Nowell, A.R.M. and P.A. Jumars. 1984. Flow environments of aquatic benthos. *Ann Rev. Ecol. Syst.* **15**: 303-328.
- Hessler, R.R., and P.A. Jumars. 1974. Abyssal community analysis from replicate box cores in the central North Pacific. *Deep-Sea Res.* **21**: 185-209.
- Penry, D.L., and P.A. Jumars. 1987. Modeling animal guts as chemical reactors. *Am. Nat.* **129**: 69-96.

(d) Synergistic Activities (five of many; selected for diversity)

Cross-trained many non-biological oceanographers in the basic concepts of biological oceanography through an interdisciplinary course at the graduate level and a text tailored to it (1983-1998); mentored successful Ph.D. students, including 4 NSF Graduate Fellows (below)

Edited *Limnology and Oceanography* for six years (1986-1992; as sole editor for the first four years); subsequently served as its Associate Editor for Scholarly Reviews

Board service: President of the American Society of Limnology and Oceanography 2002-2004; Board of Directors, Council of Scientific Society Presidents 2004-2008, Chair-Elect 2007, Chair 2008; Chair, Maine Marine Research Coalition 2008; Board of Oceans and Atmosphere, APLU 2007-present; Board of NERACOOS (Northeast Regional Associate of Ocean Observing Systems) 2008

Co-chaired (with Mark Hay) review and prognosis of biological oceanography for the National Science Foundation (OEUVRE — Ocean Ecology: Understanding and Vision for REsearch) and participated in the synthesis effort (aka Decadal Planning, leading to the report, *Ocean Sciences at the New Millenium*) to combine and update the results of the disciplinary reports in biological, chemical, geological and physical oceanography

Provided or initiated web materials for education, e.g.:

Doing Science <<http://www.umaine.edu/marine/people/sites/pjumars/science/directory.html>>

Design of Marine Organisms <http://www.umaine.edu/marine/people/sites/pjumars/classes/SMS_481/index.html>

(e) Collaborators & Other Affiliations

(i) Collaborators

Sanjay Arwade, Amherst University

Bernard P. Boudreau, Dalhousie University

John Crimaldi, University of Colorado

Lisa Fauci, Tulane University

Bruce D. Johnson, Dalhousie University

Magdalena M. Musielak, The George Washington University

Hoa L. Nguyen, Tulane University

Evan Variano, U.C. Berkeley

(ii) Graduate and Postdoctoral Advisors

Robert R. Hessler, Scripps Institution of Oceanography

Kristian Fauchald, U.S. National Museum of Natural History, Smithsonian Institution

(iii) Postdoctoral Associates

Robert J. Feller, U. South Carolina

Maria Cristina Gambi, Stazione Zoologica, Naples

Rachel S. Lasley, Bigelow Laboratory for Ocean Sciences

Craig R. Smith, U. Hawaii

Eric Weissberger, U.S. EPA

(iv) Past Ph.D. Students

W. Brian Dade (secondary advisor to A.R.M. Nowell), Dartmouth College

Kelly M. Dorgan, Scripps Institution of Oceanography

James E. Eckman, Office of Naval Research

Eugene D. Gallagher, U. Mass. Boston

Brian T. Hentschel, San Diego State U.

Paul S. Hill (secondary advisor to A.R.M. Nowell), Dalhousie U.

Lee Karp-Boss, University of Maine

Douglas C. Miller, U. Delaware

Jill L. S. Murray, U.C. Santa Barbara

Deborah L. Penry

Craig J. Plante, University of Charleston

Jeff Shimeta, University of Melbourne

Gary L. Taghon, Rutgers

Robert A. Wheatcroft (co-adviser with A.R.M. Nowell), Oregon State University